

Rabbit Ankyrin erythroid/ANK/ANK1 Polyclonal Antibody | anti-ANK1 antibody

Anti-Ankyrin erythroid/ANK/ANK1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19466	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Ankyrin erythroid/ANK/ANK1; Polyclonal Antibody; Anti-Ankyrin erythroid/ANK/ANK1 Antibody Picoband; anti-ANK1 antibody

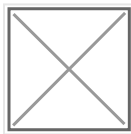
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ANK1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot)
Application Notes	WB: 0.1-0.25 ug/ml, Human IHC-P: 2-5 ug/ml, Human, Mouse, Rat ICC/IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human Direct ELISA: 0.1-0.5 ug/ml, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P) and ICC.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human Ankyrin erythroid/ANK/ANK1 recombinant protein (Position: N1300-Q1844).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of HEL cells using anti-Ankyrin Erythroid/ANK/ANK1 antibody (AAA19466). Overlay histogram showing HEL cells stained with AAA19466 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Ankyrin Erythroid/ANK/ANK1 Antibody (AAA19466, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



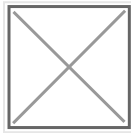
IF (Immunofluorescence)

Figure 5. IF analysis of Ankyrin Erythroid/ANK/ANK1 using anti-Ankyrin Erythroid/ANK/ANK1 antibody (AAA19466). Ankyrin Erythroid/ANK/ANK1 was detected in an immunocytochemical section of A549 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-Ankyrin Erythroid/ANK/ANK1 Antibody (AAA19466) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



IHC (Immunohistochemistry)

Figure 4. IHC analysis of Ankyrin Erythroid/ANK/ANK1 using anti-Ankyrin Erythroid/ANK/ANK1 antibody (AAA19466). Ankyrin Erythroid/ANK/ANK1 was detected in a paraffin-embedded section of rat cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Ankyrin Erythroid/ANK/ANK1 Antibody (AAA19466) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



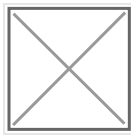
IHC (Immunohistochemistry)

Figure 3. IHC analysis of Ankyrin Erythroid/ANK/ANK1 using anti-Ankyrin Erythroid/ANK/ANK1 antibody (AAA19466). Ankyrin Erythroid/ANK/ANK1 was detected in a paraffin-embedded section of mouse cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Ankyrin Erythroid/ANK/ANK1 Antibody (AAA19466) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of Ankyrin Erythroid/ANK/ANK1 using anti-Ankyrin Erythroid/ANK/ANK1 antibody (AAA19466). Ankyrin Erythroid/ANK/ANK1 was detected in a paraffin-embedded section of human colon cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Ankyrin Erythroid/ANK/ANK1 Antibody (AAA19466) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of Ankyrin Erythroid/ANK/ANK1 using anti-Ankyrin Erythroid/ANK/ANK1 antibody (AAA19466). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HEL whole cell lysates, Lane 2: human K562 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Ankyrin Erythroid/ANK/ANK1 antigen affinity purified polyclonal antibody (#AAA19466) at 0.25 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Ankyrin Erythroid/ANK/ANK1 at approximately 250 kDa. The expected band size for Ankyrin Erythroid/ANK/ANK1 is at 206 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ANK1 antibody

Ankyrin 1, erythrocytic, also known as ANK1, is a protein that in humans is encoded by the ANK1 gene. Ankyrins are a family of proteins that link the integral membrane proteins to the underlying spectrin-actin cytoskeleton and play key roles in activities such as cell motility, activation, proliferation, contact and the maintenance of specialized membrane domains. Multiple isoforms of ankyrin with different affinities for various target proteins are expressed in a tissue-specific, developmentally regulated manner. Most ankyrins are typically composed of three structural domains: an amino-terminal domain containing multiple ankyrin repeats; a central region with a highly conserved spectrin binding domain; and a carboxy-terminal regulatory domain which is the least conserved and subject to variation. Ankyrin 1, the prototype of this family, was first discovered in the erythrocytes, but since has also been found in brain and muscles. Mutations in erythrocytic ankyrin 1 have been associated in approximately half of all patients with hereditary spherocytosis. Complex patterns of alternative splicing in the regulatory domain, giving rise to different isoforms of ankyrin 1 have been described. Truncated muscle-specific isoforms of ankyrin 1 resulting from usage of an alternate promoter have also been identified.

Product Categories/Family for anti-ANK1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies
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NCBI AND UNIPROT INFORMATION

NCBI GI #	70780357
NCBI GeneID	286
NCBI Accession #	NP_000028.3
NCBI GenBank Nucleotide #	NM_000037.3
UniProt Accession #	P16157; O43400; Q13768; Q53ER1; Q59FP2; Q8N604; Q99407; A0PJN8; A6NJ23; E5RFL7
Molecular Weight	17,854 Da
NCBI Official Full Name	ankyrin-1 isoform 3
NCBI Official Synonym Full Names	ankyrin 1, erythrocytic
NCBI Official Symbol	ANK1
NCBI Official Synonym Symbols	ANK; SPH1; SPH2
NCBI Protein Information	ankyrin-1; ANK-1; ankyrin-R; erythrocyte ankyrin
UniProt Protein Name	Ankyrin-1
UniProt Gene Name	ANK1
UniProt Synonym Gene Names	ANK; ANK-1
UniProt Entry Name	ANK1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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